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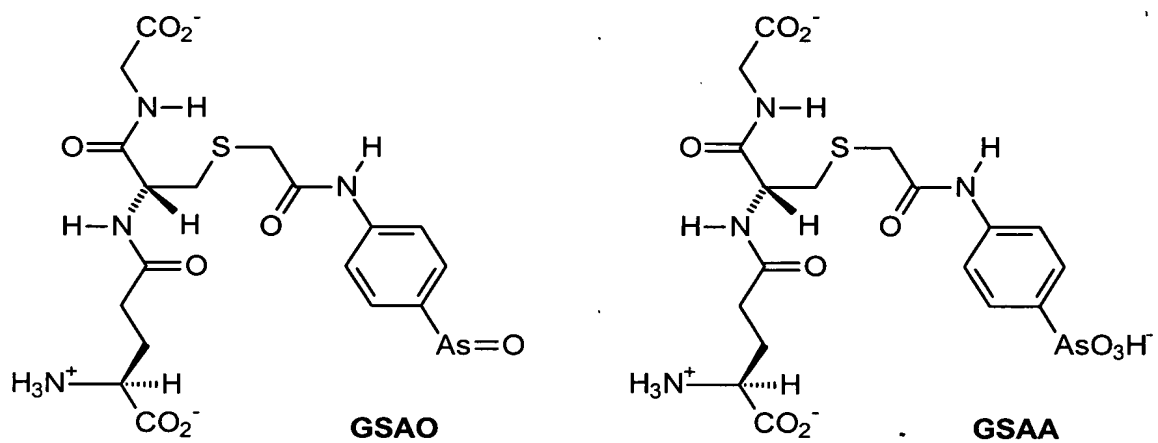


FIGURE 1

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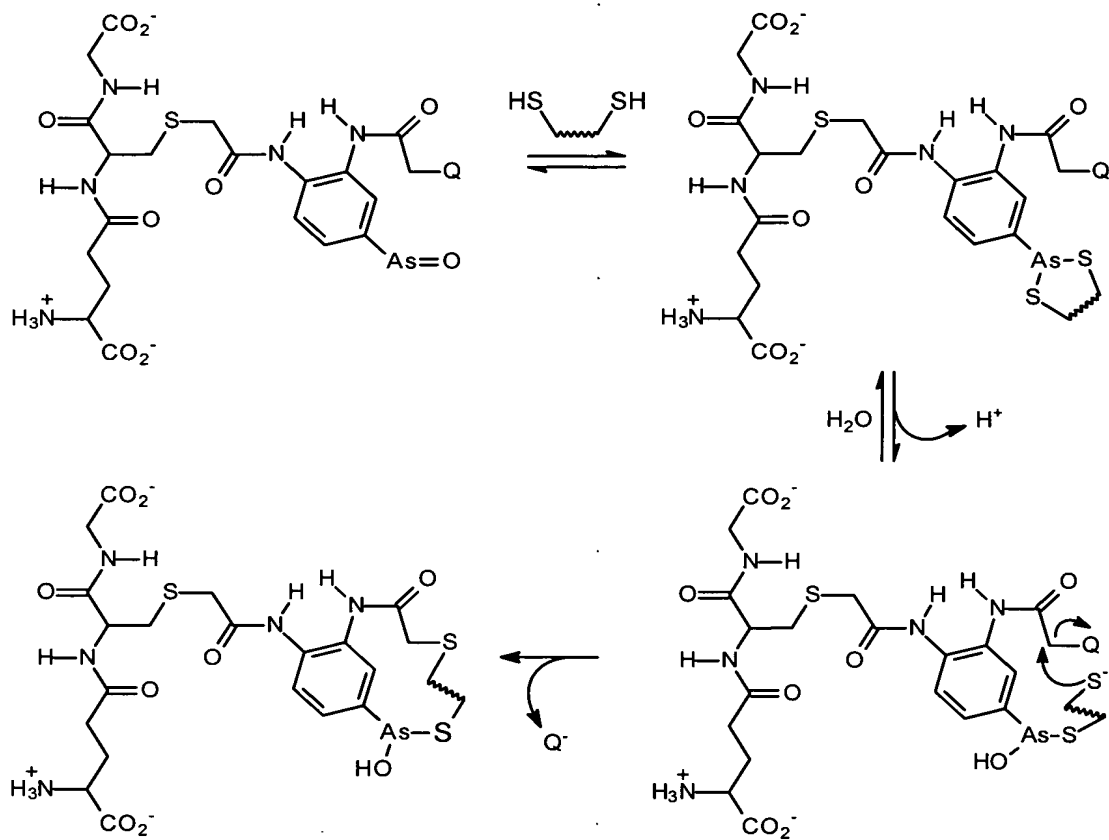


FIGURE 2

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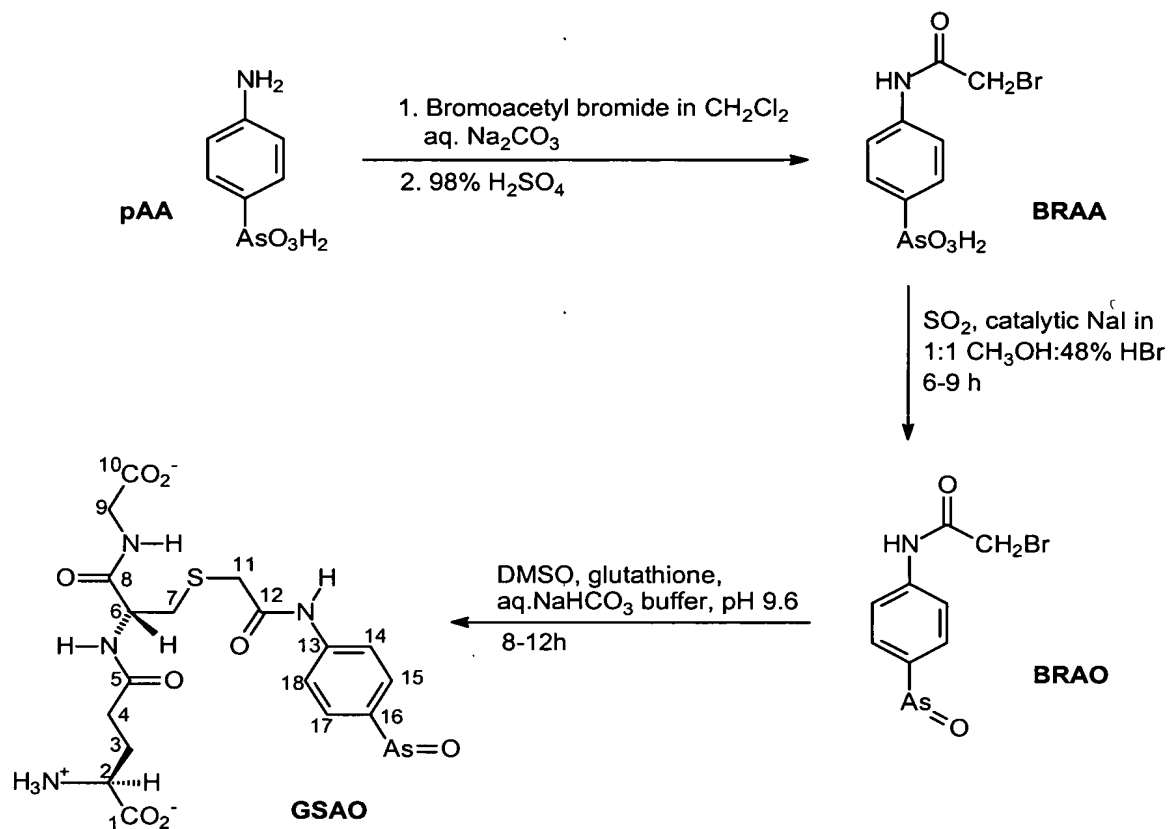


FIGURE 3

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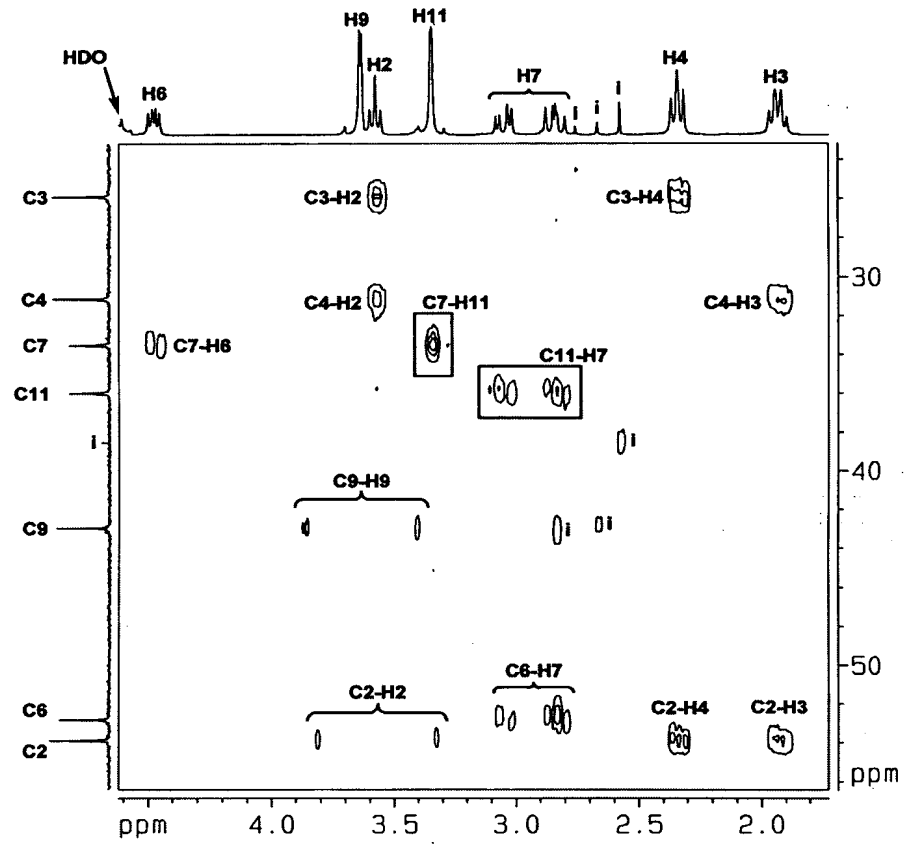


FIGURE 4

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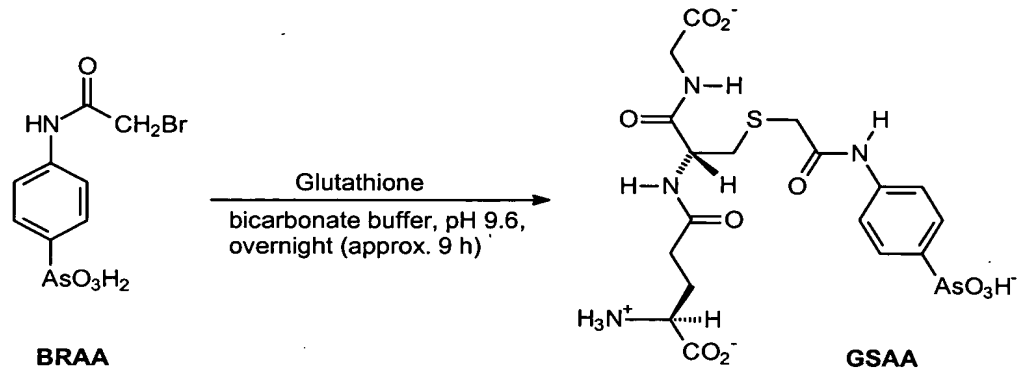
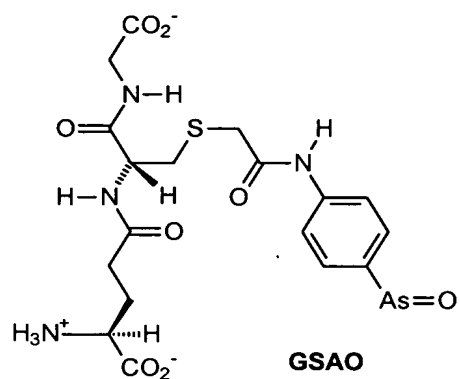


FIGURE 5

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1. Biotin-XX, succinimidyl ester in DMSO, aq. NaHCO_3 buffer, pH 9.6 (60 to 90 mins);
2. 100mM glycine in PBS buffer, pH 7.3 (4 to 9 hours)

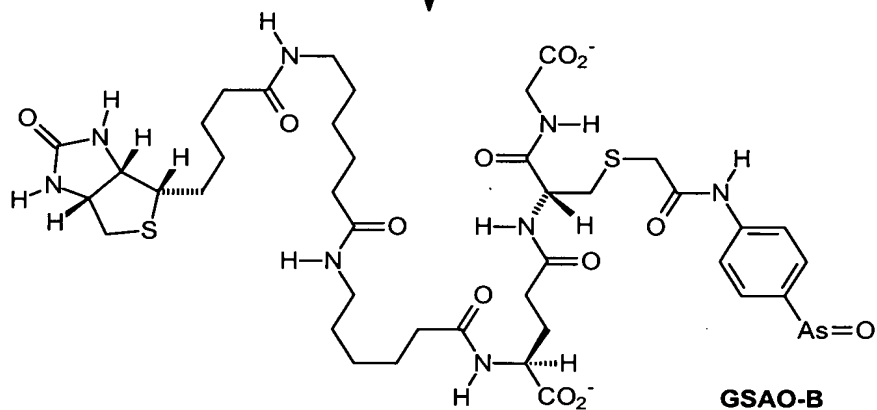
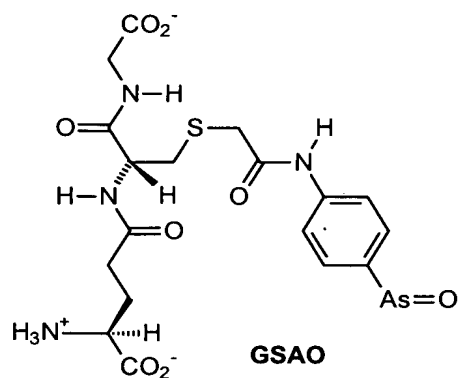


FIGURE 6

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1. Fluorescein-EX, succinimidyl ester
in DMSO, aq. NaHCO_3 buffer, pH 9.6
(60 to 90 mins);
2. 100mM glycine in PBS buffer, pH 7.3
(4 to 9 hours)

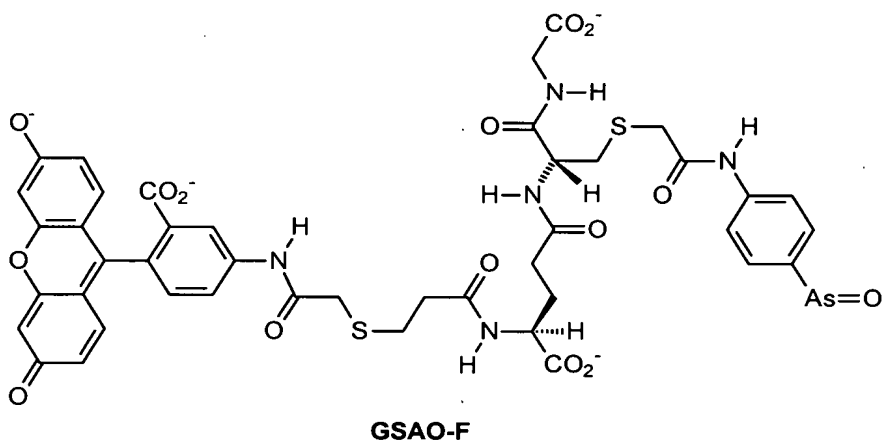


FIGURE 7

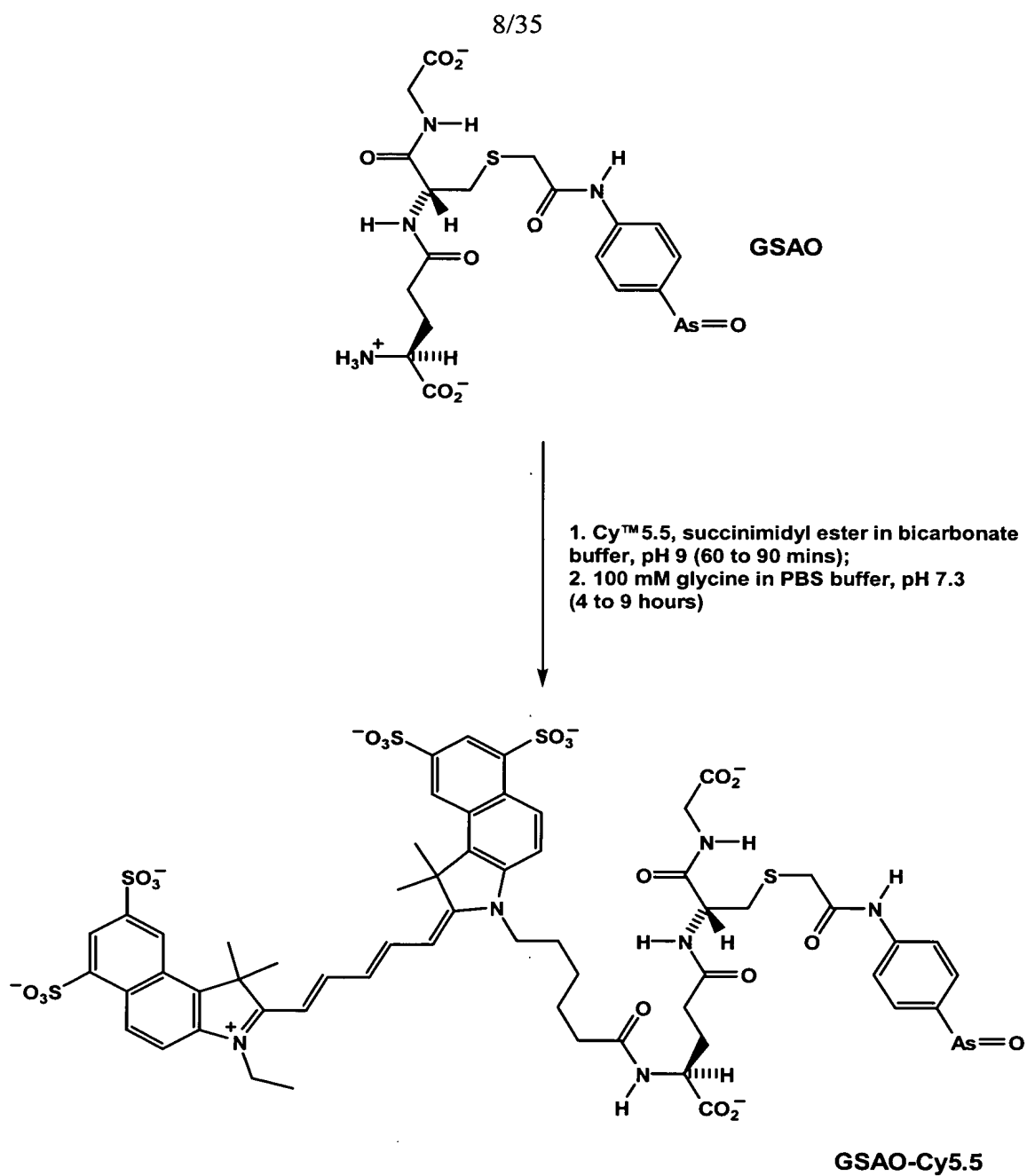
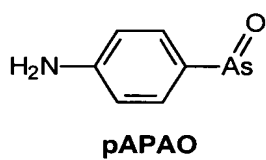


FIGURE 8

Nc1ccc([As](O)(O)O)cc1

pAA

SO₂, catalytic NaI
in 1:1 CH₃OH:48% HBr,
6-9 hours



1. Fluorescein-X succinimidyl ester (mixture of isomers) in DMSO, aqueous NaHCO_3 , 80 mins
2. 100mM Glycine in PBS, pH 7.3, 4-9 hours

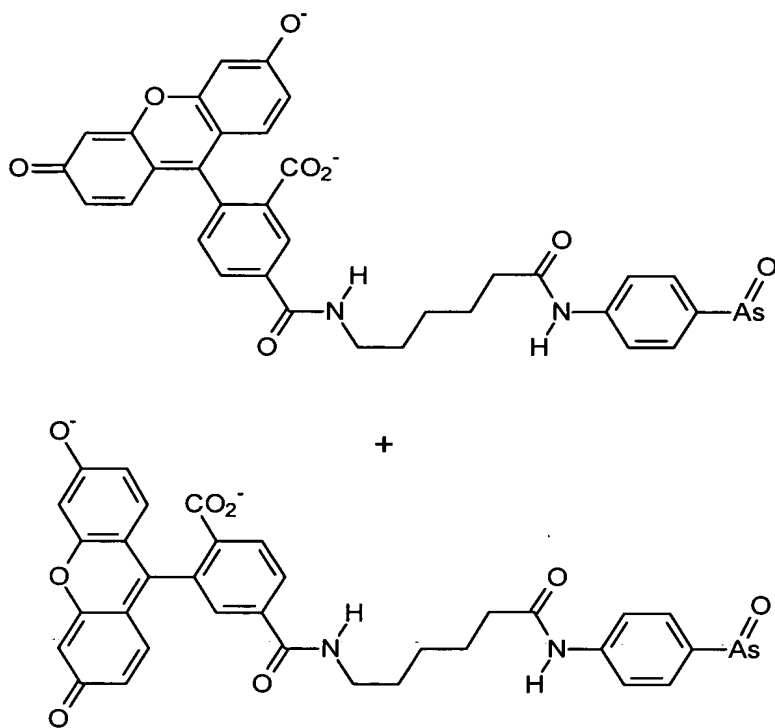
**FXAO, mixture of isomers**

FIGURE 9

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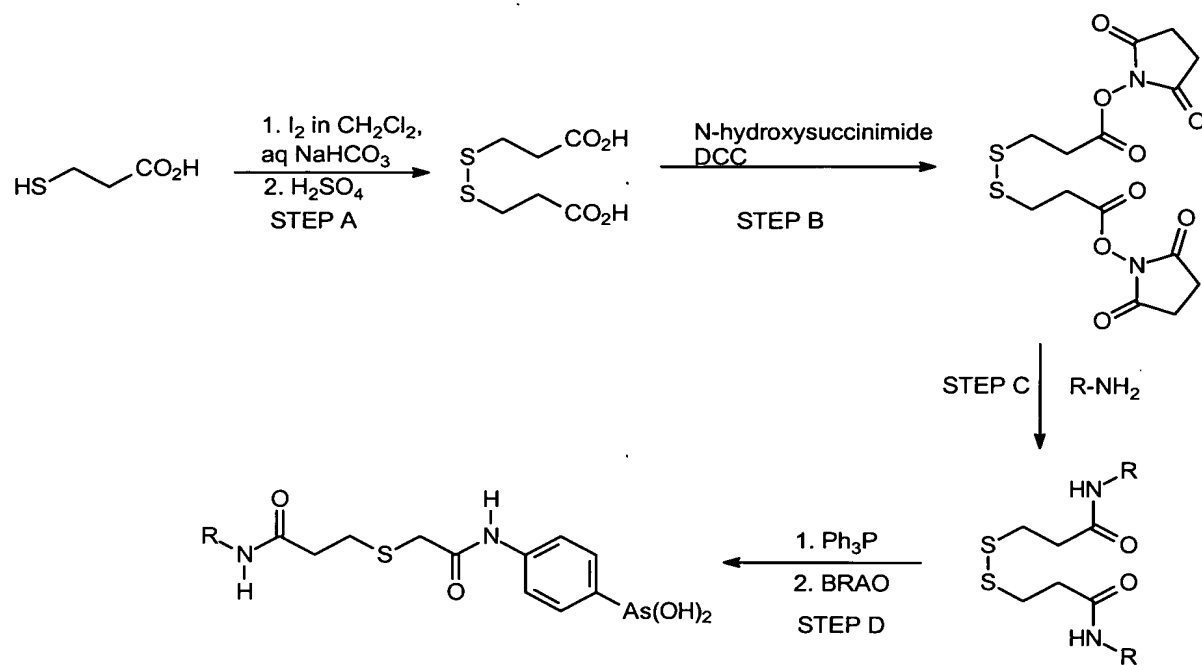


FIGURE 10

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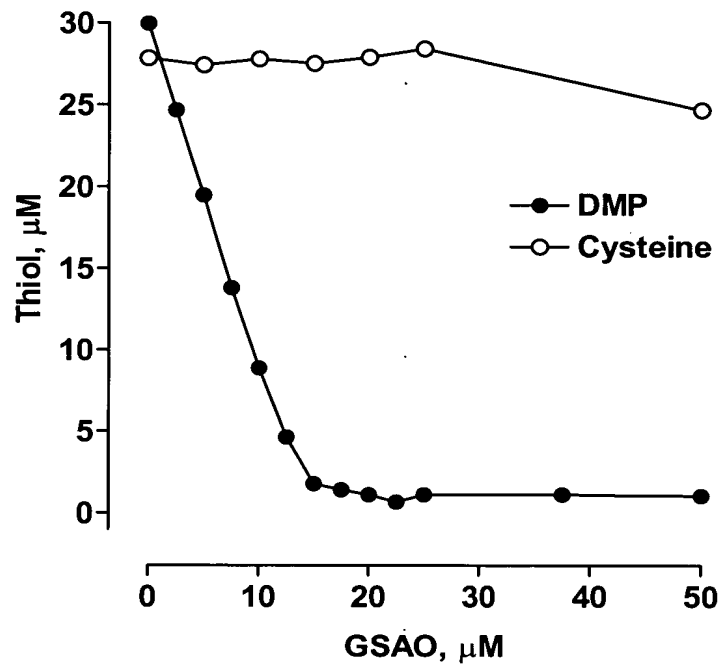


FIGURE 11

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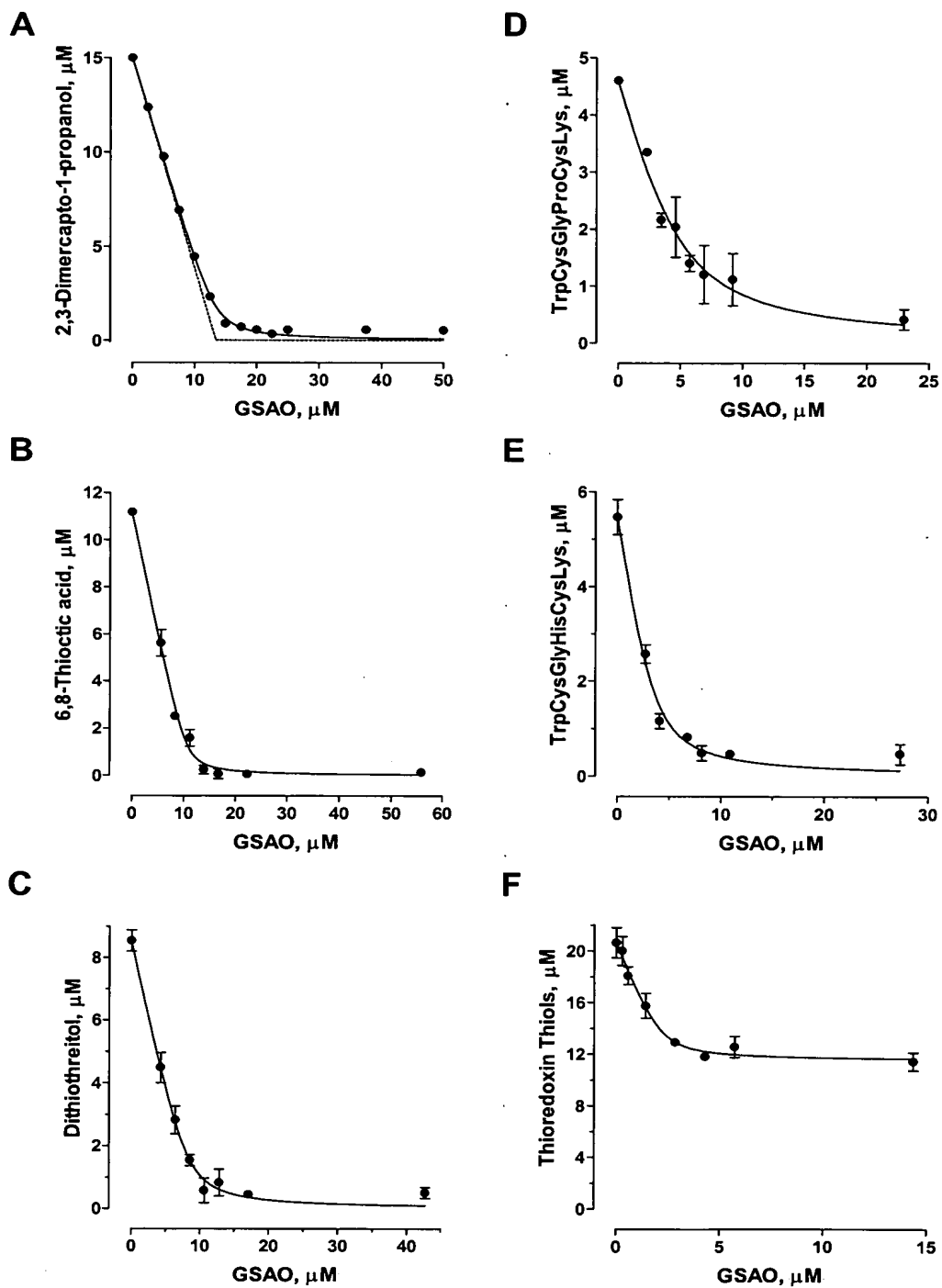


FIGURE 12

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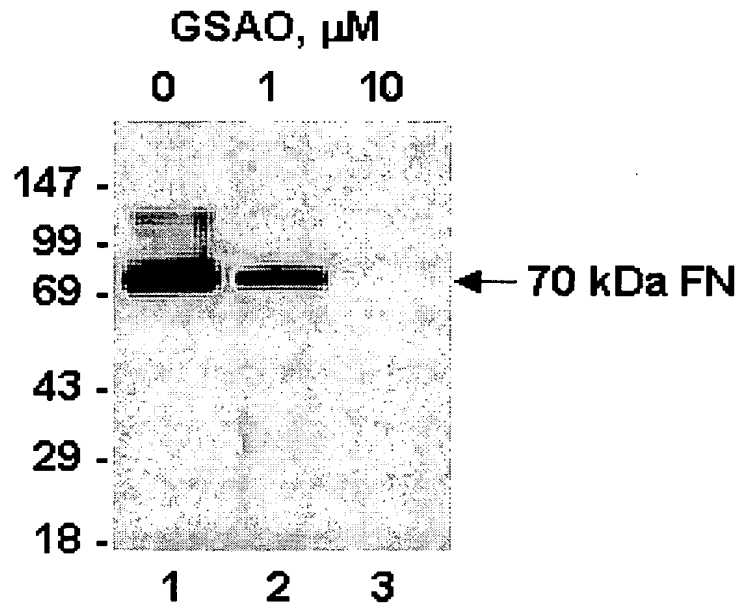


FIGURE 13

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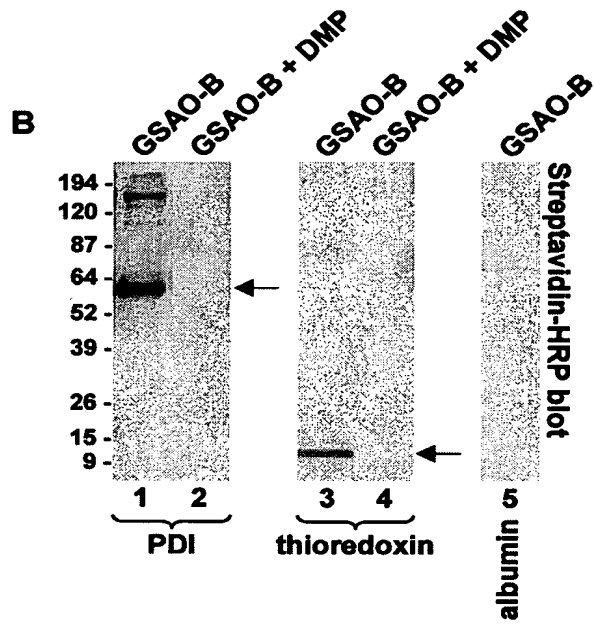
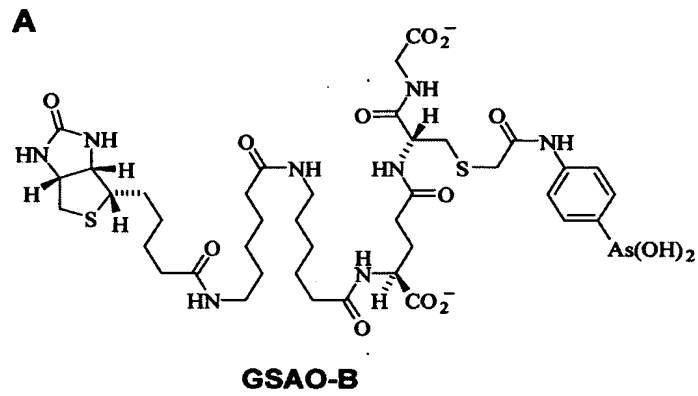


FIGURE 14

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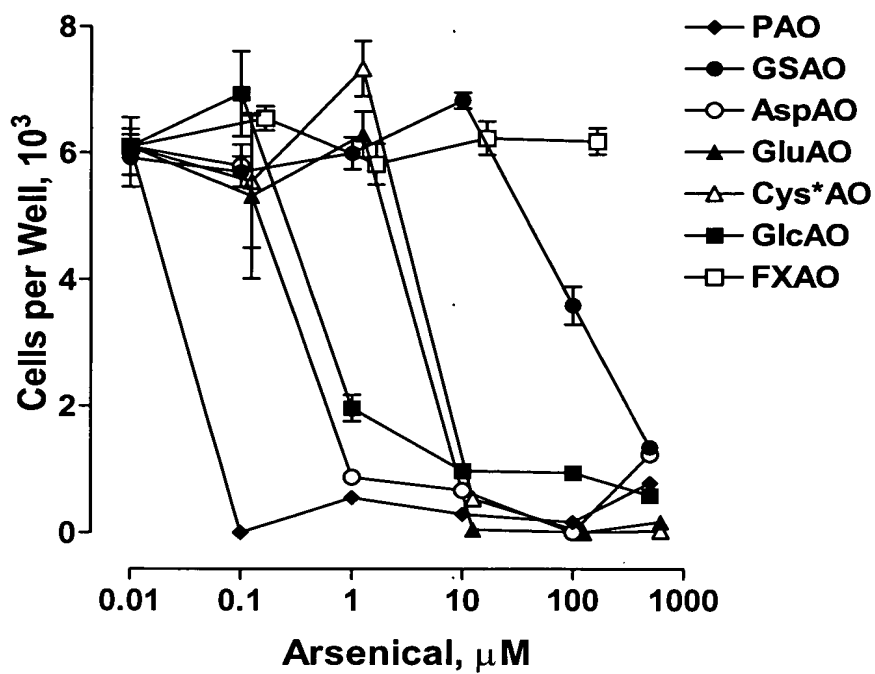


FIGURE 15

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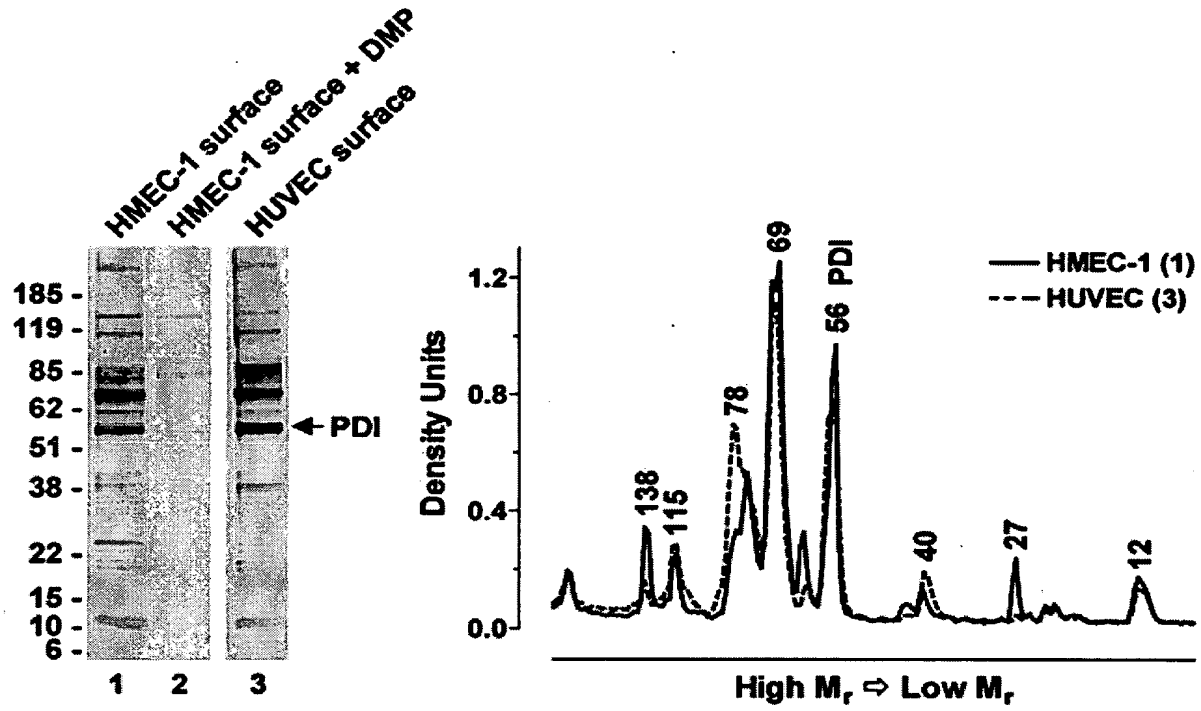


FIGURE 16

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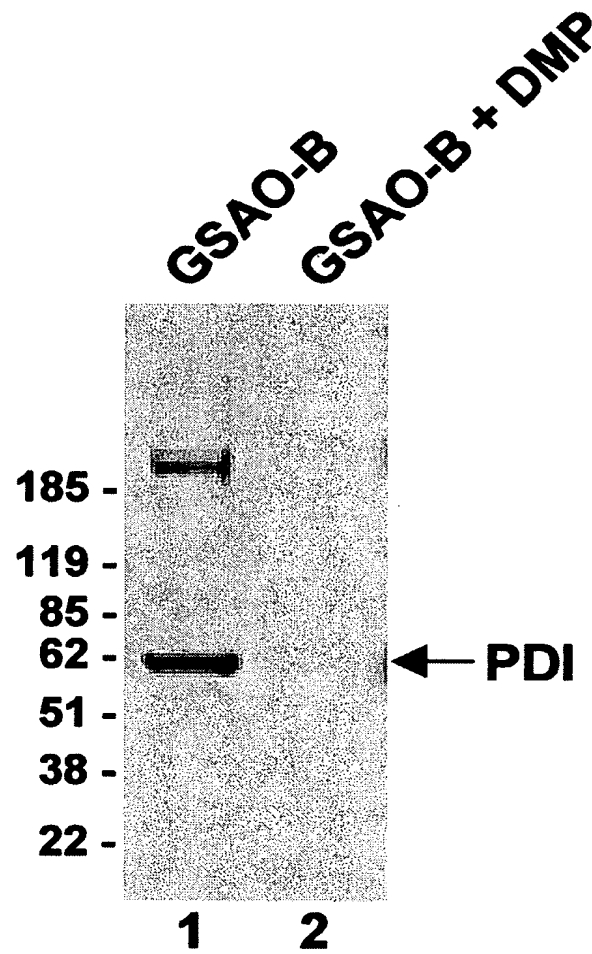


FIGURE 17

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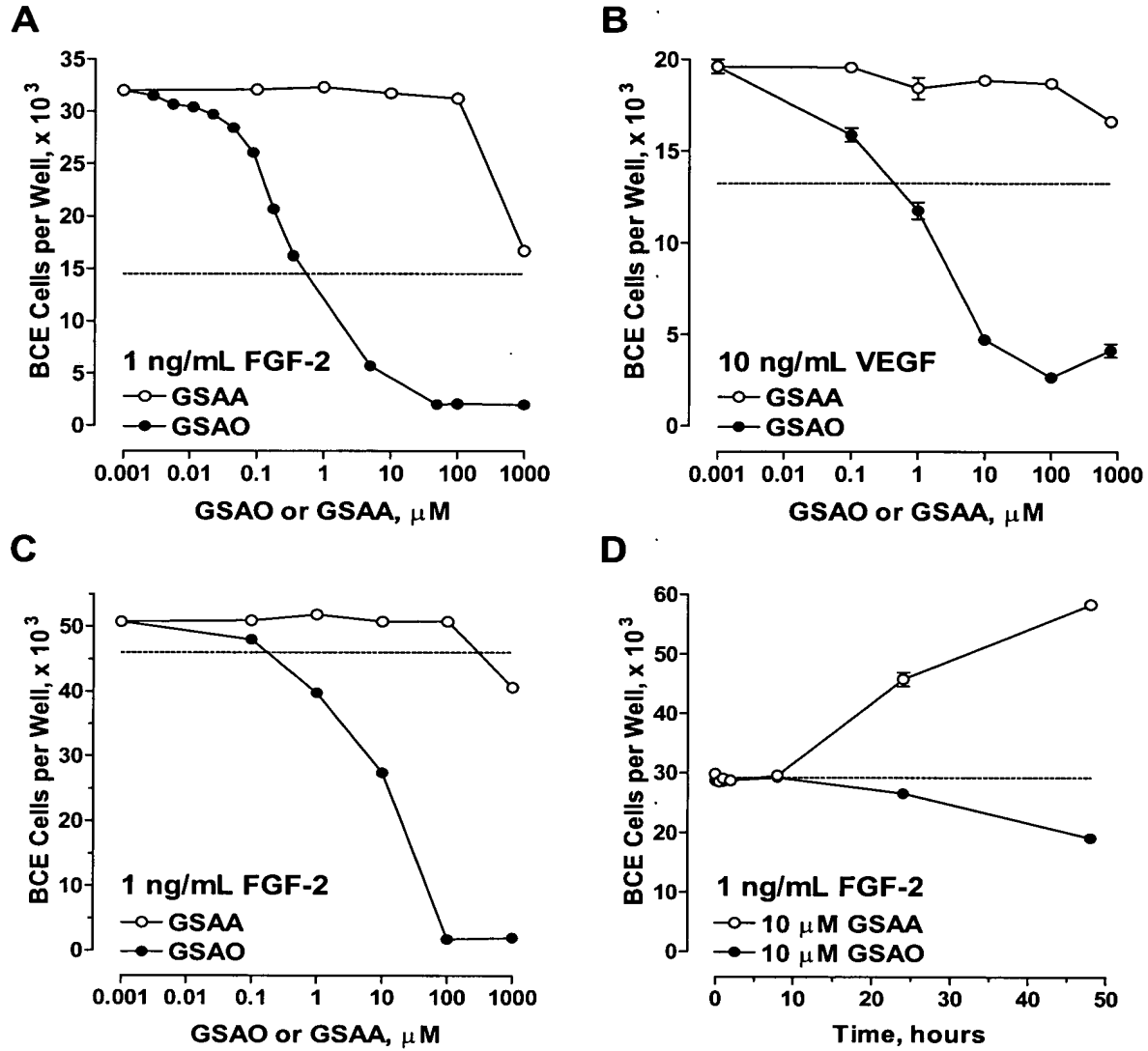


FIGURE 18

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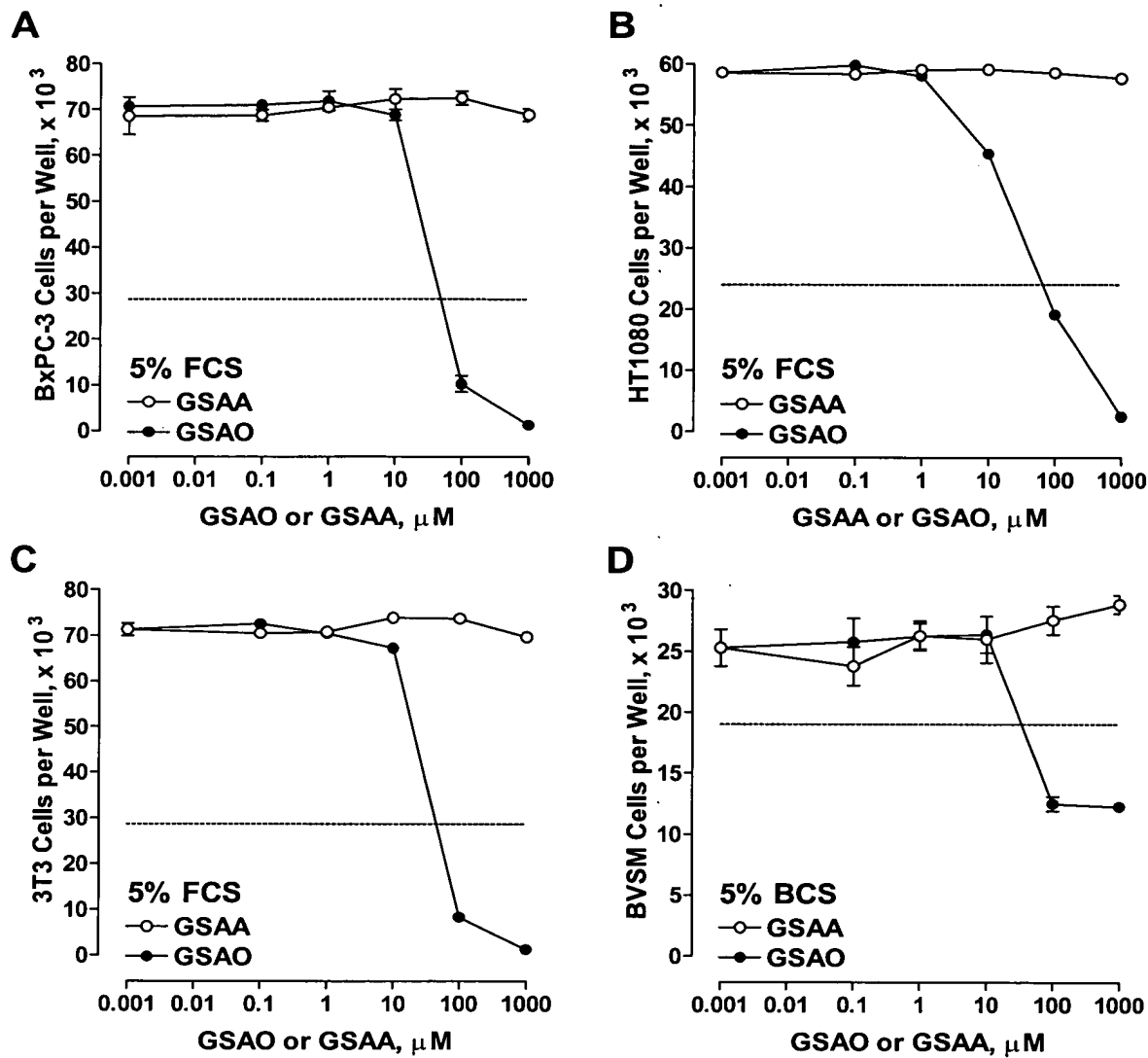


FIGURE 19

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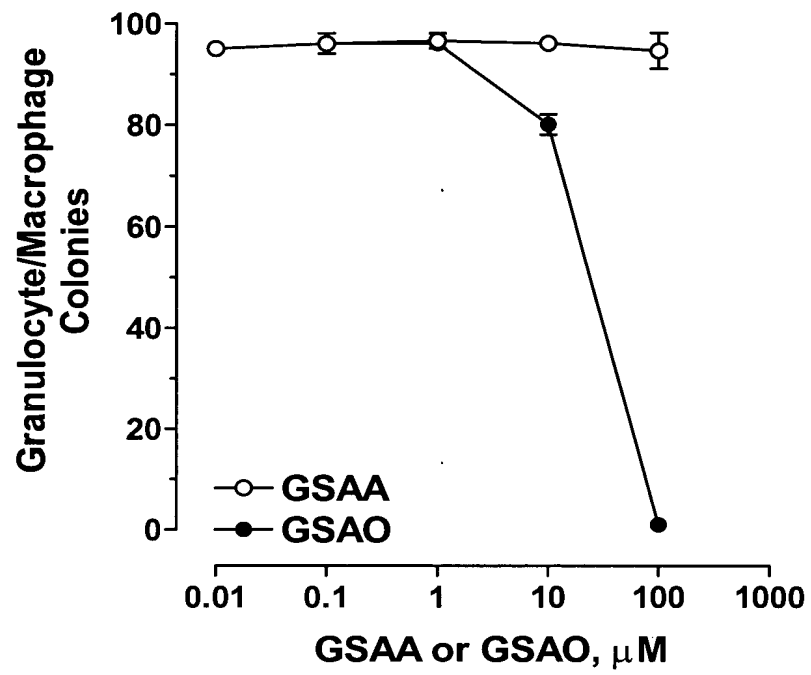


FIGURE 20

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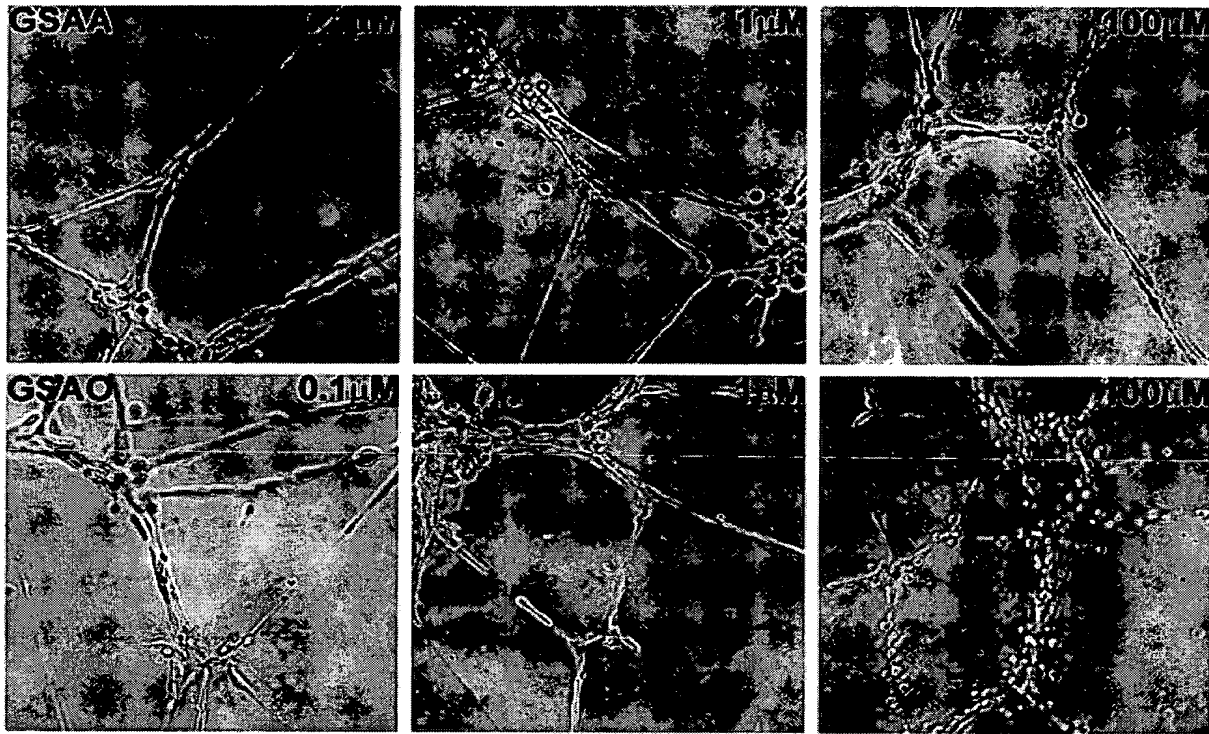


FIGURE 21

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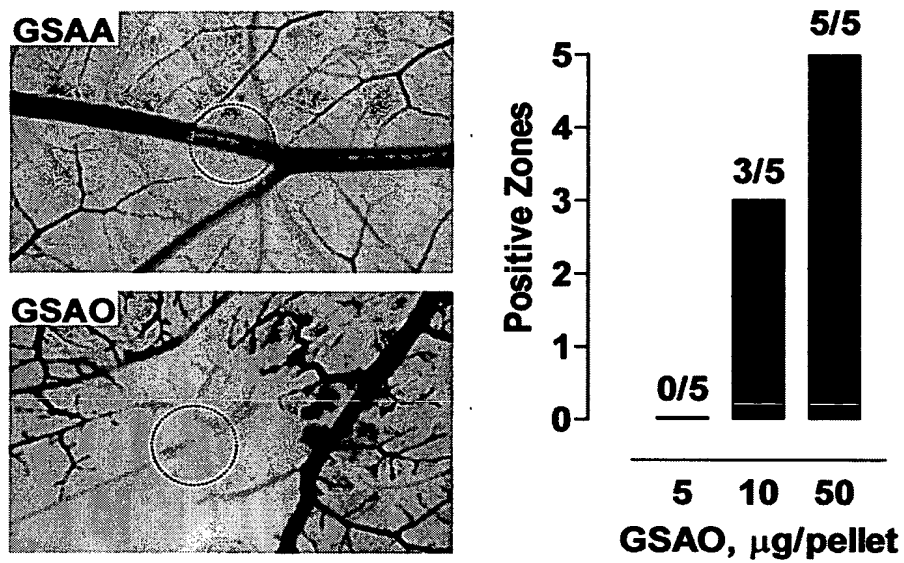


FIGURE 22

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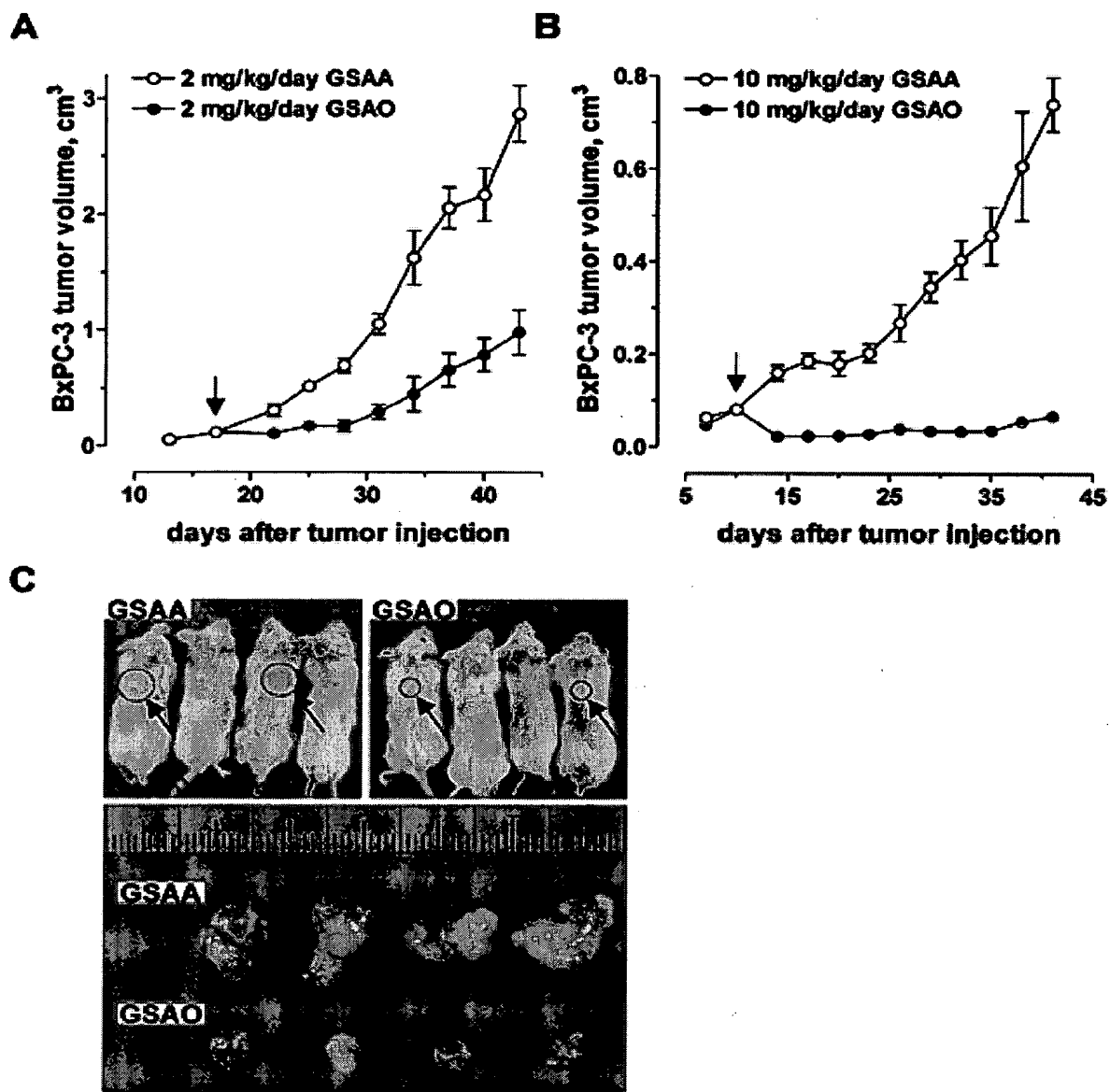


FIGURE 23

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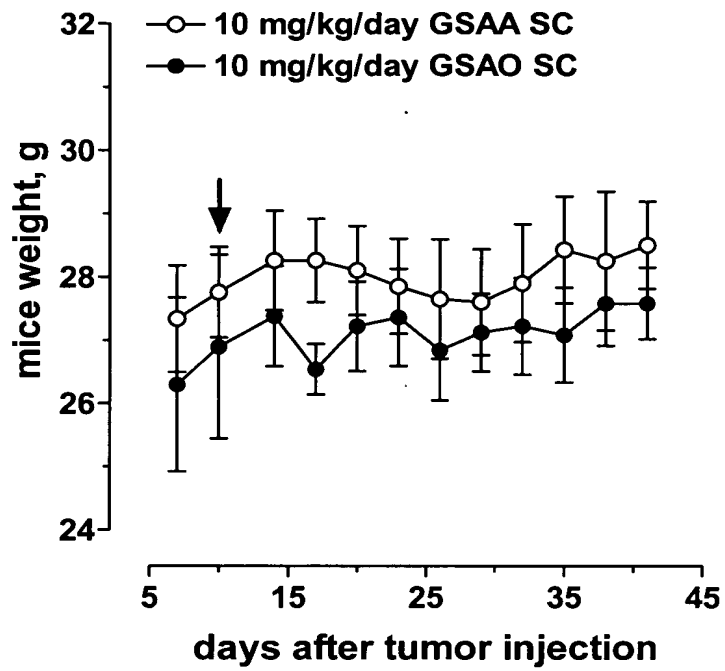
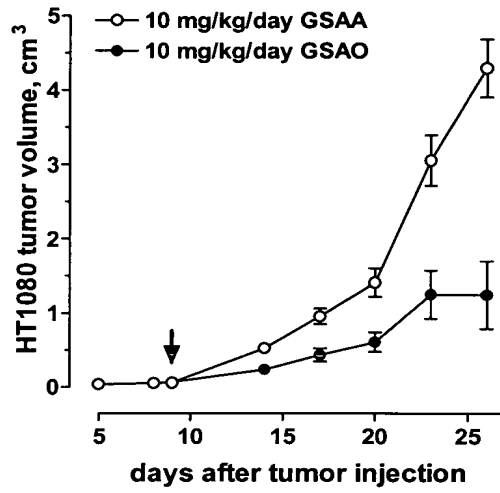


FIGURE 24

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A



B

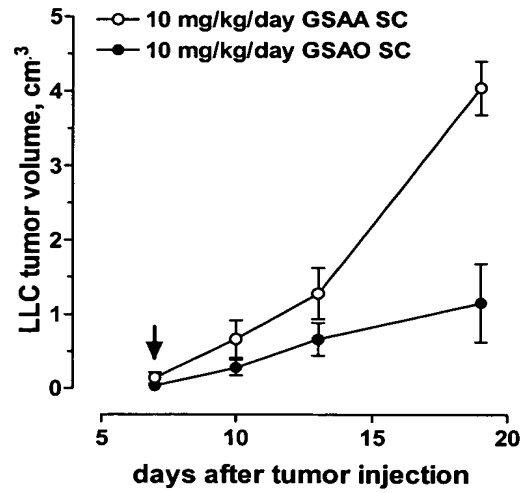
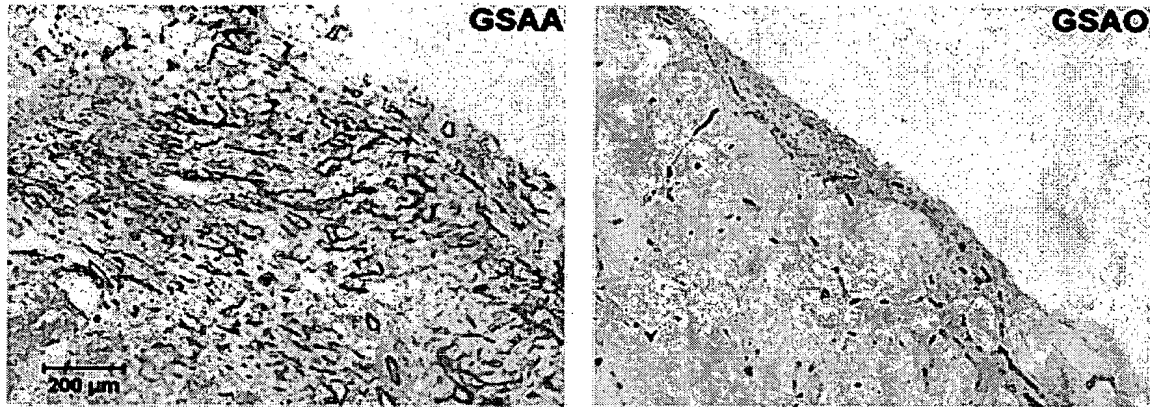


FIGURE 25

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A



B

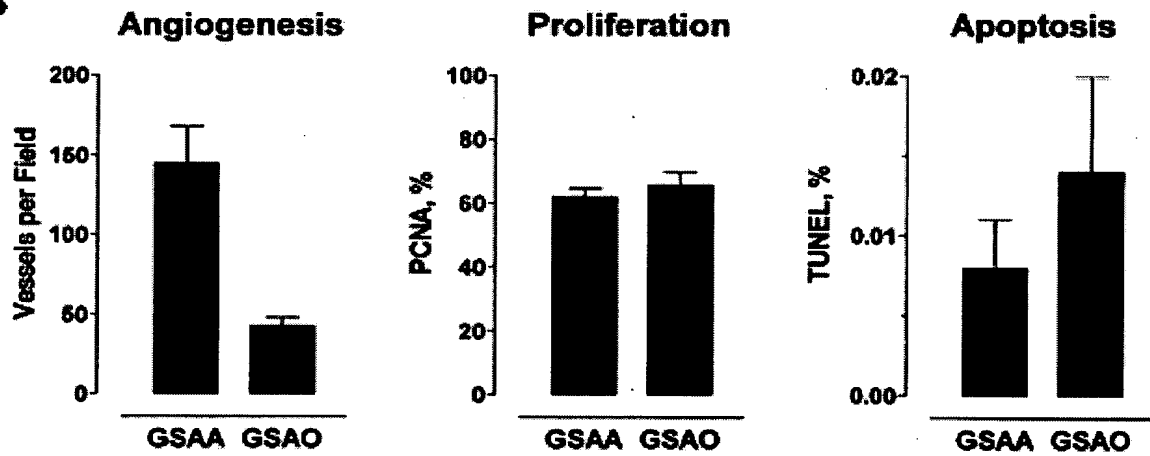


FIGURE 26

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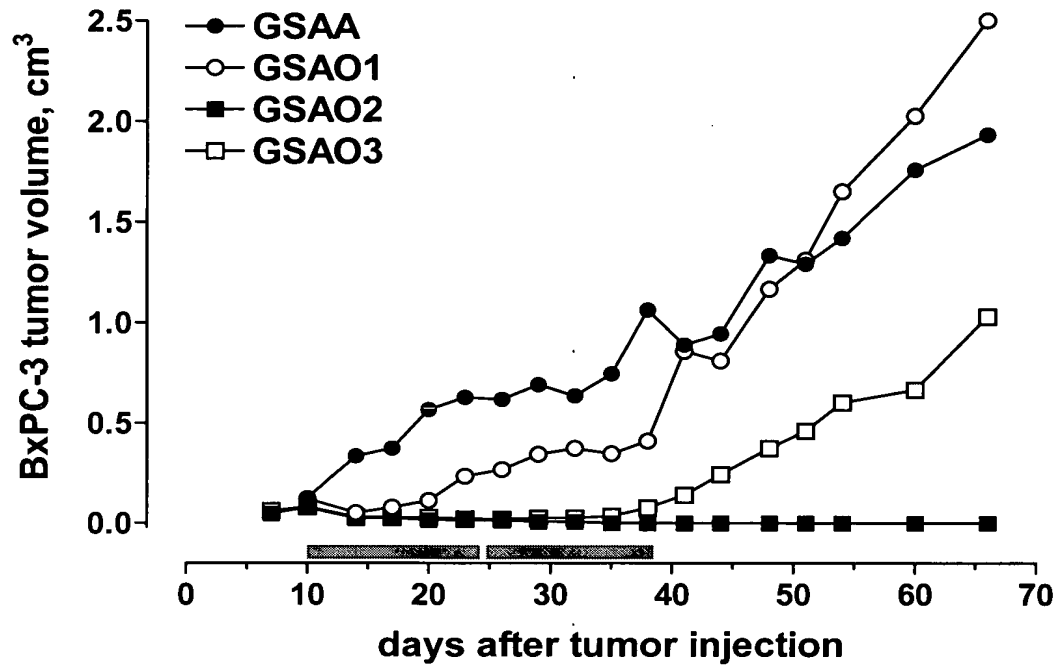
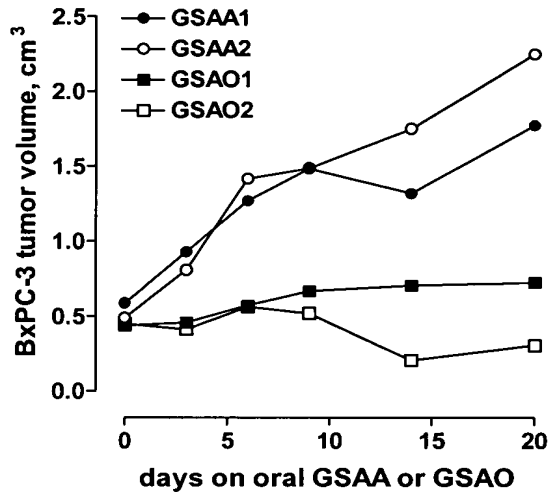


FIGURE 27

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A



B

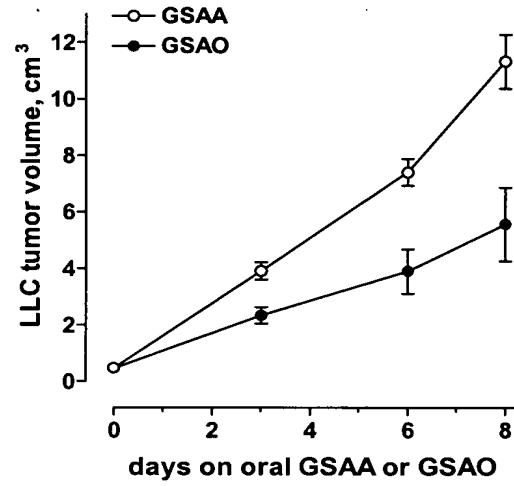
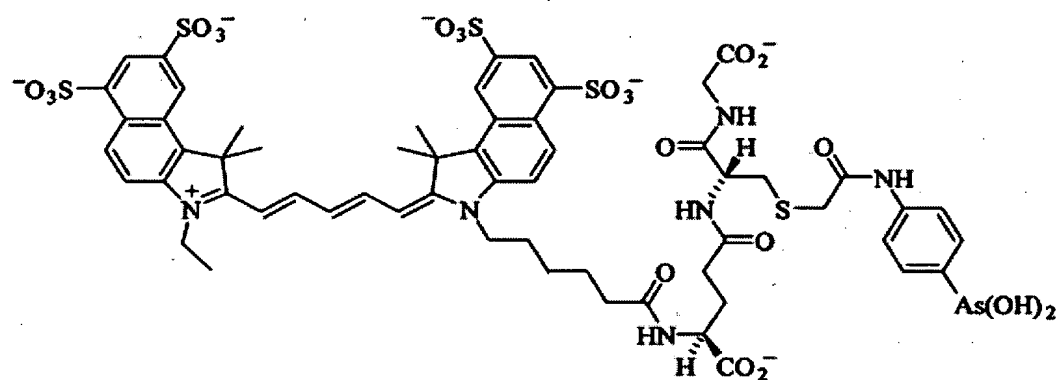
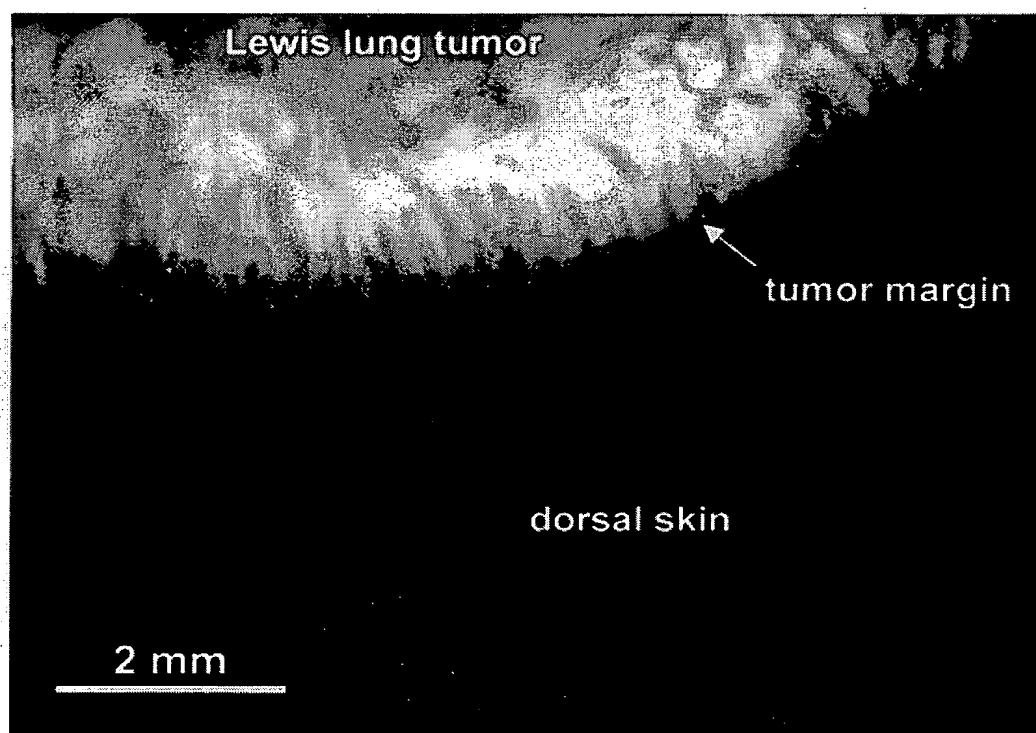


FIGURE 28

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A**GSAO-Cy5.5****B****FIGURE 29**

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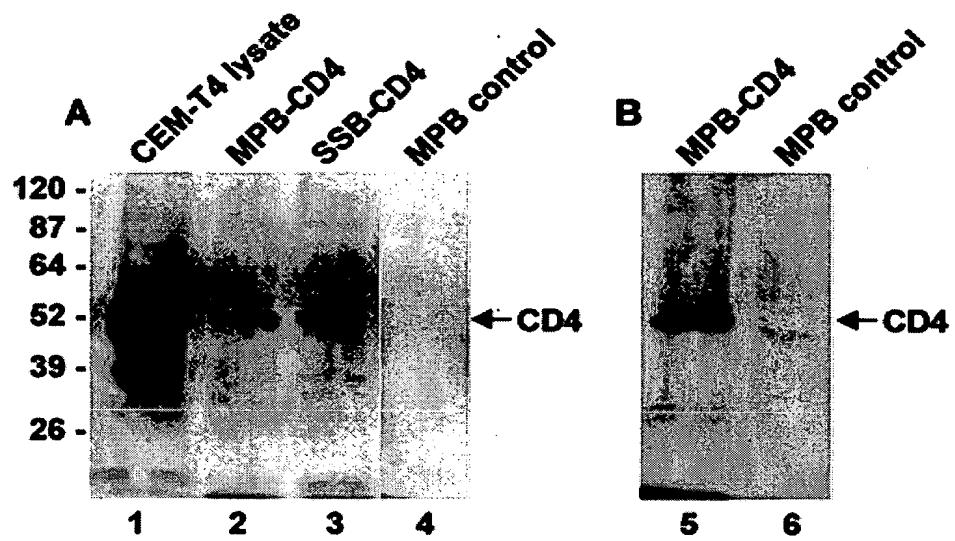


FIGURE 30

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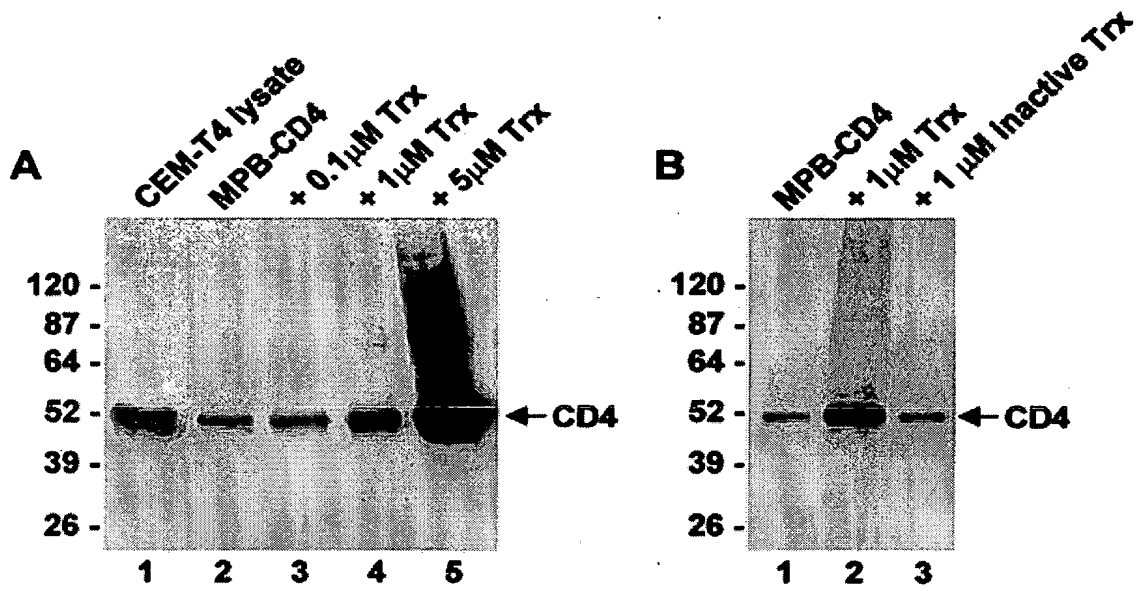


FIGURE 31

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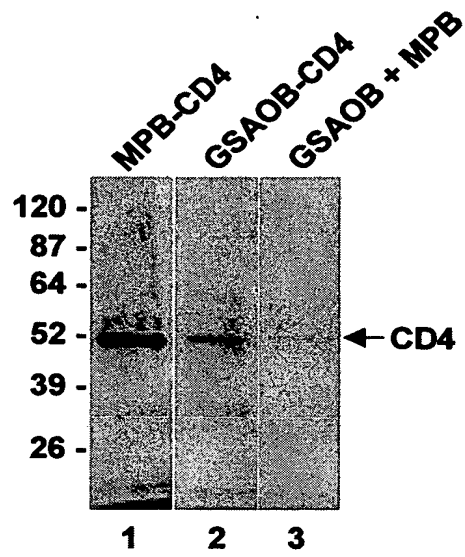


FIGURE 32

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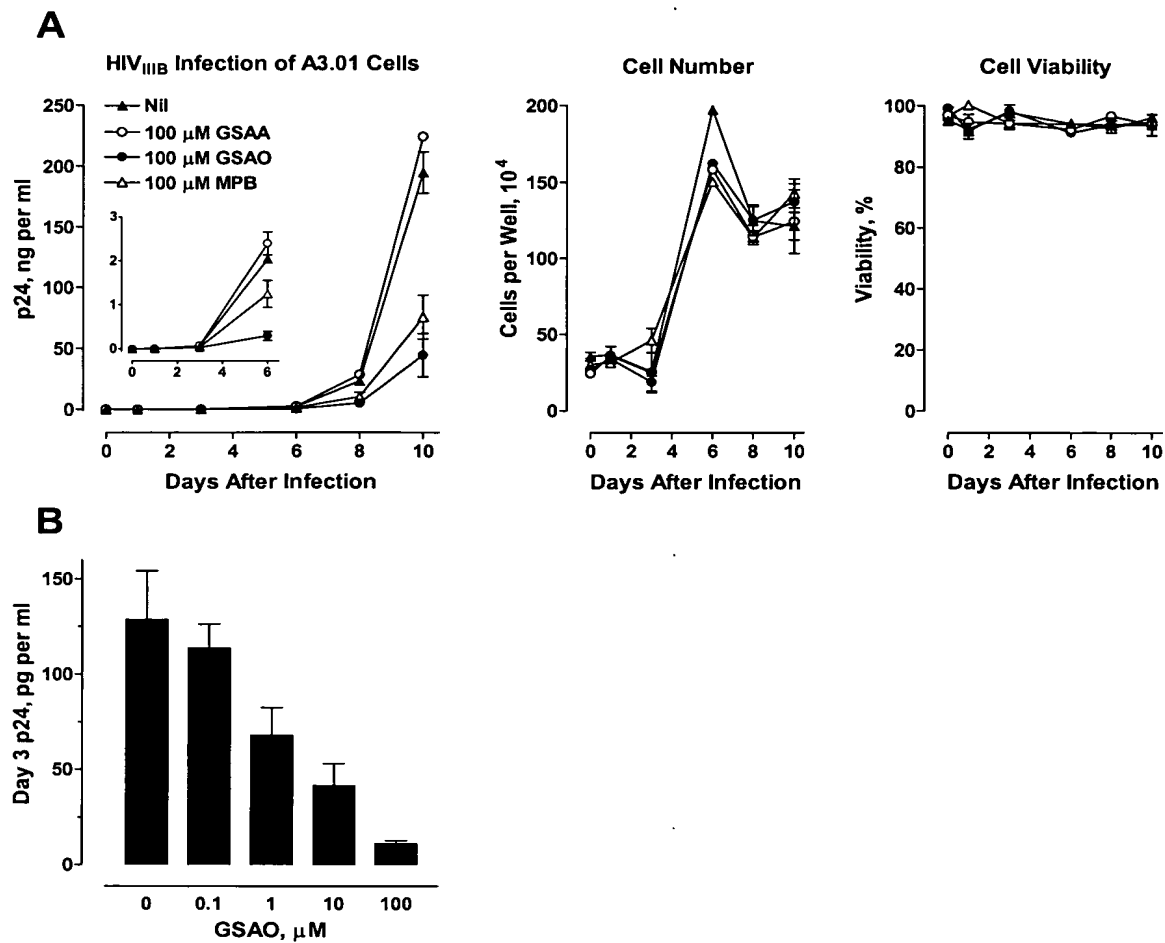


FIGURE 33

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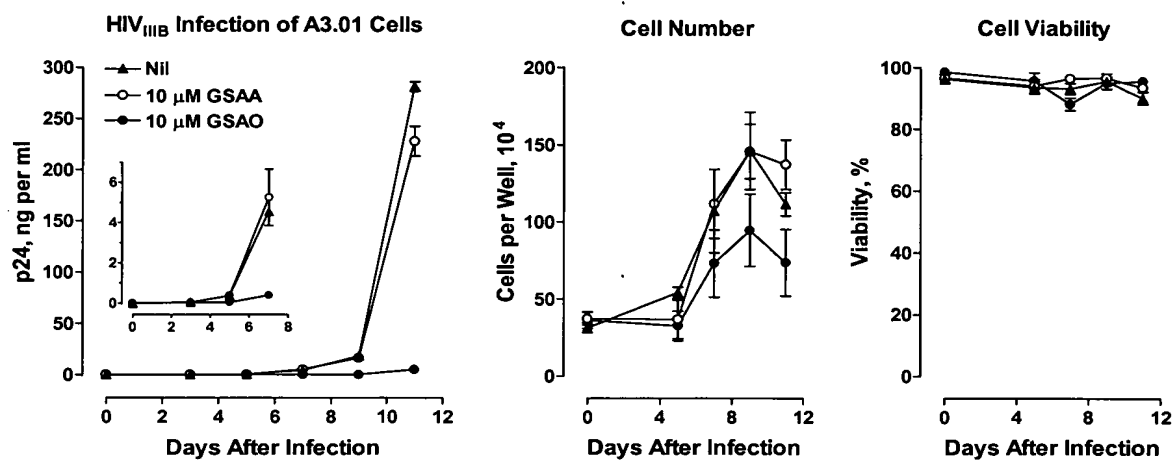


FIGURE 34

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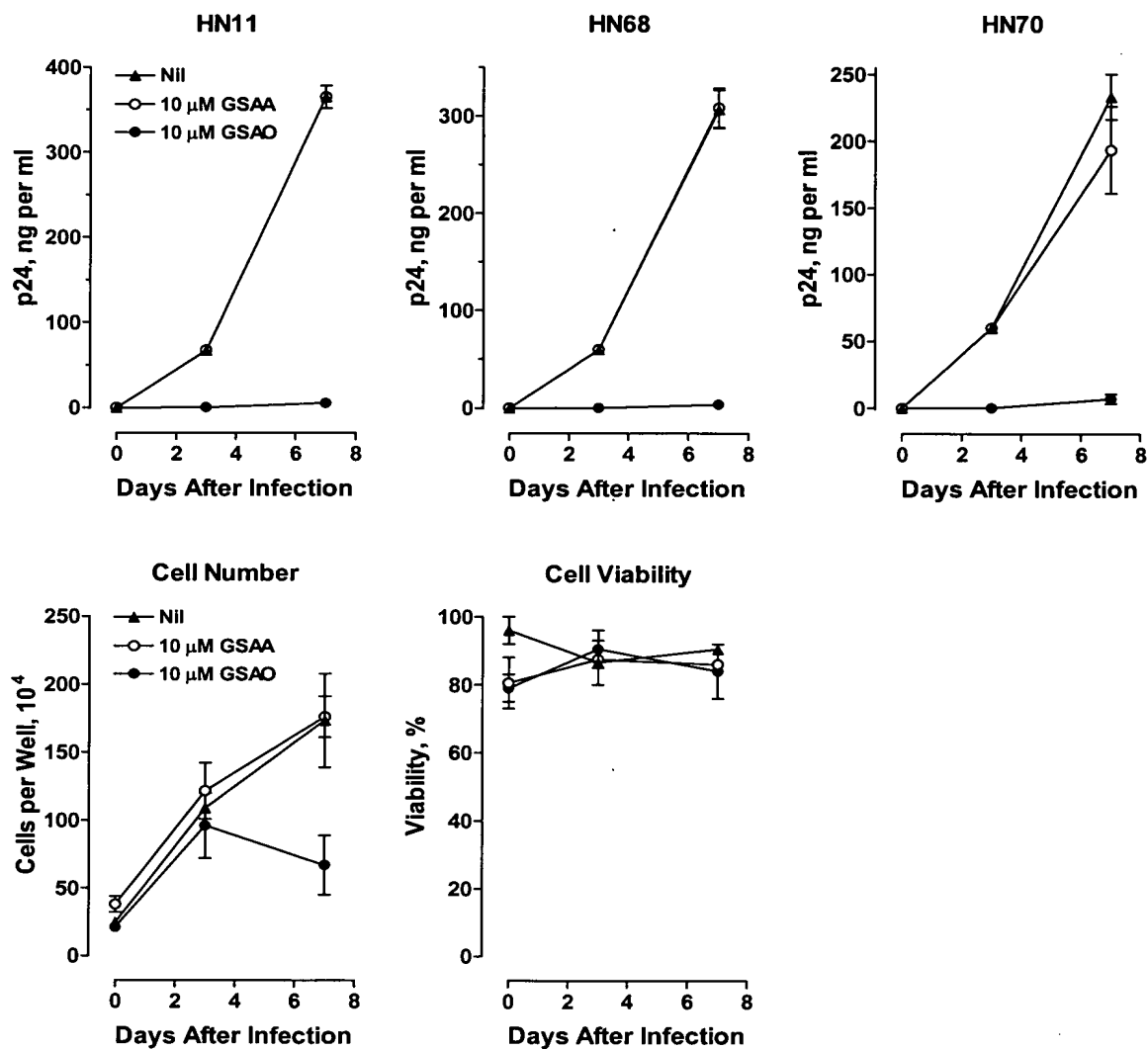


FIGURE 35